

What is claimed is:

1. A focal-plane shutter for cameras, comprising:

two base plates provided with a blade chamber between the two base plates, each having an aperture for exposure at about a center; and

a shutter blade group having a plurality of arms pivotally mounted to one of the two base plates and at least one blade pivotally supported by means of a plurality of joint shanks with respect to the plurality of arms, placed in the blade chamber so that heads of the joint shanks project toward a photographer side,

wherein, of the two base plates, a base plate placed on the photographer side has at least one convex portion metal-plated on an object-side surface thereof, and the arms slide along the convex portion and are shifted to the object side immediately before the heads of the joint shanks moved inside the aperture in an actuation of the shutter blade group reach a position corresponding to an edge of the aperture.

2. A focal-plane shutter for cameras according to claim 1, wherein a surface hardness of the convex portion metal-plated is substantially the same as a surface hardness of each of the arms.

3. A focal-plane shutter for cameras according to claim 2, wherein a material of metal plating of the convex portion is palladium and each of the arms is made in such a way that after carbon tool steel is immersed in an alkaline solution to form a black oxide film, chromate treatment is applied to the steel, or titanium is nitride-treated.

4. A focal-plane shutter for cameras according to any one of claims 1-3, wherein the convex portion is configured so that the object-side surface of a member mounted

to the base plate placed on the photographer side is spherical.

5. A focal-plane shutter for cameras according to any one of claims 1-3, wherein the base plate placed on the photographer side is made of synthetic resin, and the convex portion is configured integral with the base plate made of synthetic resin so that the object-side surface is spherical.

6. A focal-plane shutter for cameras according to any one of claims 1-3, wherein space between the two base plates is partitioned by an intermediate plate, the shutter blade group is placed between the intermediate plate and the base plate placed on the photographer side, and an additional shutter blade group pivotally supporting at least one blade by means of joint shanks with respect to a plurality of arms pivotally mounted to the one base plate is placed between the intermediate plate and a remaining base plate.

7. A focal-plane shutter for cameras according to claim 4, wherein space between the two base plates is partitioned by an intermediate plate, the shutter blade group is placed between the intermediate plate and the base plate placed on the photographer side, and an additional shutter blade group pivotally supporting at least one blade by means of joint shanks with respect to a plurality of arms pivotally mounted to the one base plate is placed between the intermediate plate and a remaining base plate.

8. A focal-plane shutter for cameras according to claim 5, wherein space between the two base plates is partitioned by an intermediate plate, the shutter blade group is placed between the intermediate plate and the base plate placed on the pho-

tographer side, and an additional shutter blade group pivotally supporting at least one
5 blade by means of joint shanks with respect to a plurality of arms pivotally mounted
to the one base plate is placed between the intermediate plate and a remaining base
plate.